

Docket No.: 0171-1270PUS1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Tomohisa YAMADA et al.

Application No.: 10/577,333

Filed: April 28, 2006

For: CHARGE TRANSPORTING COMPOUND,

CHARGE TRANSPORTING MATERIAL, CHARGE TRANSPORTING VARNISH,

CHARGE TRANSPORTING THIN FILM, AND

ORGANIC ELECTROLUMINESCENT

ELEMENT

Confirmation No.: N/A

Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

LETTER

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Subsequent to the filing of the above-identified application on April 28, 2006, attached hereto is an English Translation of the International Preliminary Report on Patentability issued by the International Bureau on behalf of the International Searching Authority. Please make this document of record for the above-identified application.

Application No.: 10/577,333 Docket No.: 0171-1270PUS1

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or to credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Dated: September 26, 2006

Respectfully submitted,

Registration No.: 28,977

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Attachments

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From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To:

KOJIMA, Takashi GINZA OHTSUKA Bldg. 2F 16-12, Ginza 2-chome Chuo-ku, Tokyo 1040061 JAPON



Date of mailing (day/month/year) 03 August 2006 (03.08.2006)	OFFICE OFFICE
Applicant's or agent's file reference FAP-4026	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/016094	International filing date (day/month/year) 29 October 2004 (29.10.2004)
Applicant NISSAN C	HEMICAL INDUSTRIES, LTD. et al

ı	Transmittal	of the	tranclation	to	the applicant.
1.	i i anomina	or mic	u ansiauvii	w	uie applicant

The International Bureau transmits herewith a copy of the English translation of the international preliminary report or
patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Masashi Honda
Facsimile No. +41 22 338 82 70	Facsimile No. +41 22 338 82 70

Form PCT/IB/338 (January 2004)

γ : :

TRANSLATION PATENT COOPERATION TREATY PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FAP-4026	FOR FURTHER ACTION	N	See Form PCT/IPEA/416
International application No.	International filing date (days	/month/year)	Priority date (day/month/year)
PCT/JP2004/016094	29.10.2004		30.10.2003
International Patent Classification (IPC) of	r national classification and IPC	<u> </u>	
C08G85/00 , 61/00,	75/20, H05B33/1	4, 33/22	
Applicant			
NISSAN CHEMICAL IN	DUSTRIES, LTD.		
	preliminary examination report, est to the applicant according to Articl		aternational Preliminary Examining Authority
2. This REPORT consists of a tota	l of	sheets, including	this cover sheet.
3. This report is also accompanied			
		total of	sheets, as follows:
			nended and are the basis for this report and/or
sheets containi Instructions).	ng rectifications authorized by this	Authority (see Rule	e 70.16 and Section 607 of the Administrative
			ders contain an amendment that goes beyond n item 4 of Box No. I and the Supplemental
	onal Bureau only) a total of (indicat	te type and number	of electronic carrier(s))
_ `	••		. containing a sequence listing and/or tables
	puter readable form only, as indicaninistrative Instructions).		mental Box Relating to Sequence Listing (see
4. This report contains indications	relating to the following items:		
Box No. I Basis	of the report		
Box No. II Priorit	у		
Box No. III Non-e	stablishment of opinion with regard	to novelty, inventiv	ve step and industrial applicability
Box No. IV Lack of unity of invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement			
Box No. VI Certain			
Box No. VII Certain			
Date of submission of the demand		f completion of this	report
I be need of the definite		,	•
Name and mailing address of the IPEA/JF	Author	rized officer	
		•	
Facsimile No.	Teleph	one No.	

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP2004/016094

Box	No. I	Basis of the report	
l.		ard to the language, this report is based on the internation under this item.	nal application in the language in which it was filed, unless otherwise
		s report is based on translations from the original language of a translation furnished for the purp	
	片	international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4)	
		international preliminary examination (Rule 55.2 and/	
2.	receiving this repor	ord to the elements of the international application, this office in response to an invitation under Article 14 are 1):	report is based on (replacement sheets which have been furnished to the referred to in this report as "originally filed" and are not annexed to
		international application as originally filed/furnished	
		description:	
	pag		
	pag	-	received by this Authority on
	page	es*	received by this Authority on
	the	claims:	
	nos.	·	as originally filed/furnished
	nos.	*	as amended (together with any statement) under Article 19
	nos.	*	received by this Authority on
	nos.	*	received by this Authority on
	the	drawings:	
	shee	ets	as originally filed/furnished
	shee	ets*	received by this Authority on
	shee	ets*	received by this Authority on
	a se	quence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence Listing.
3.	The	amendments have resulted in the cancellation of:	
		the description, pages	
	一	the claims, nos.	
4.		s report has been established as if (some of) the amenda	ments annexed to this report and listed below had not been made, since
	they	have been considered to go beyond the disclosure as file	
	吊	the description, pages	
	⊢	the claims, nos.	
		- -	
	100	any table(s) related to sequence listing (specify):	
*	If item 4 o	applies, some or all of those sheets may be marked "supe	

International application No. PCT/JP2004/016094

Box			rticle 35(2) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement			
	Novelty (N)	Claims	4, 6, 9-13	YES
		Claims	1-3, 5, 7-8	NO
	Inventive step (IS)	Claims	4, 6, 9-13	YES
	·	Claims	1-3, 5, 7-8	_ NO
	Industrial applicability (IA)	Claims	1-13	_ YES
		Claims		_ NO

- 2. Citations and explanations (Rule 70.7)
 - Document 1: US 4983482 A (Xerox Corporation), 8 January 1991
 - Document 2: WO 03/20790 A2 (Covion Organic Semiconductors GmbH), 13 March 2003
 - Document 3: JP 2002-40686 A (Canon Inc.), 3 February 2002
 - Document 4: JP 2001-166519 A (Canon Inc.), 22 June 2001

Claims 1 to 3, 5, 7 and 8

Document 1 (claims; compounds II, III, IV, V, VI, VII, VIII, IX, X, XI and XII in paragraphs 9 to 12; Scheme 1 from paragraph 13 to the bottom of paragraph 14; paragraph 18, line 34 to paragraph 23, line 40 (examples 1 to 11)), document 2 (claims; page 39 "MX-4", page 44 "P24", page 45 "P37, P38, P39, P40") and document 3 (claims, paragraph [0103] "No. 147", paragraphs [0134] and [0135] "examples No. 31 and 32") cited in the international search report indicate that a polymer having fluorene derivatives bonded at the 9th position is used as a hole transport layer.

Therefore the invention set forth in claims 1 and 2 lacks novelty and does not involve an inventive step in the light of the inventions set forth in documents 1, 2 and 3, and the invention set forth in claim 3 lacks

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/016094

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

novelty and does not involve an inventive step in the light of the invention set forth in document 1.

Document 4 (claims; paragraph [0133] "No. 266", paragraphs [0217] to [0225], [0241], particularly "example 10") indicates that a charge-transporting material is combined with a hole-transporting polymer having fluorene derivatives bonded at the 9th position, and the compound thus obtained is applied to form a thin film.

Therefore the inventions set forth in claims 1, 2, 5, 7 and 8 lack novelty and do not involve an inventive step in the light of the invention set forth in document 4.